

BURNERS

115 / 230 Volt Oil Burners



- .4 to 3 GPH firing rate
- 6-1/4" Blower fan 115V and 230V
- 3450 RPM Pump/blower motor
- Solid state ignition
- Beckett "CleanCut" fuel pump with oil valve
- Air tube 2-3/4"
- UL recognized

Part No.	Description
307032	Beckett AFG 115
307036	Beckett AFG 230

12 Volt DC Oil Burner



- 12 Volt solid state ignition
- 1/6 HP
- 3450 RPM
- 4-1/4" Fan
- Beckett "CleanCut" fuel pump with oil valve

Part No.	Description	Oil Valve	Electric Eye	Motor RPM
307059	Beckett 14V	Yes	—	3100
307061	Beckett 13.5V	Yes	Yes	3100

NOTE: Proper operation requires an engine with 16+ Amp alternator and deep cycle battery on nightly, overnight recharge

Blower Wheels



Part No.	Beckett Part No.	Description
079513	2288U	5-3/4D x 3-7/16W SF-SM
079515	2383U	6-1/4D x 3-7/16W SR
079517	2999U	4-1/4D x 2-1/2WAFG
079518	21404	4-1/4D x 2-7/16W ADC

Flex Couplings



Part No.	Beckett Part No.	Description
079520	2454	Flex Coupling 5/16 "A" (M/A)
079521	2290	Flex Coupling 7/16 "S" (J/H)
079522	2433	Flex Coupling 5/16 "S" (M/A)
079523	21282	Flex Coupling 7/16 "A" (J/H)
079524	21405	Flex Coupling 12 VDC

Oil Burners



115 / 230 Volt



12 Volt

- .75 to 3 GPH firing rates
- Solid state ignition (Low Amp)
- High volume 6-1/4" blower on 220V unit, 5-3/16" blower on 110V unit
- 3450 RPM pump/blower motor
- "A" – type SUNTEC fuel pump
- 3-3/4" air tube with adjustable flange for maximum versatility
- UL recognized
- 12 Volt solid state ignitor
- 3450 RPM fuel pump
- .5 to 2.75 GPH Capacity with oil valve

Part No.	Description
307000	115V AC Burner w/ Oil Valve
307003	230V AC Burner w/ Oil Valve
307007*	12V DC Burner w/ Oil Valve

*Proper operation requires an engine with 16+ Amp alternator and deep cycle battery on nightly, overnight recharge

Electrode / Insulator Assembly



Part No.	Beckett Part No.	Description
079534	5780	Std to 9" AC,A,FSR, SM
079535	5940	Std to 9" MB/MD
079536	5781	Std to 9" A & S
079548	578728	ADC

Beckett Misc. Parts



Part No.	Beckett Part No.	Description
079530	149	Electrode Clamps (ALL)
079542	5432	Flange, w/ Gasket (ALL)
079543	5850	Flange, Split Unl A&S
079560	3616	Gasket, Universal AMF
079562	3416	Gasket, Unit Mtg
079592	5877	Burner Housing AFG/ADC
079595	5717 (51400)	Knurled Nut Kit ADC
079677	51304	Transf Mtg Gasket AFG
079674	31404	Transformer Clip
079654	7006U	Cadcell Flame det
079684	7350U	Primary Control
079675	3245	Transformer Spring
079629	AF90	Air Tube w/o Head
079573	5151501	Air Band (3 x 92 AFG)
079566	51568	Brush Kit 12V ADC

Burner Motors



48M



48N

Part No.	RPM	HP	Flange	Voltage	Wayne / Beckett
079602	3450	1/7	48M	115V	20627 / 2456U
079605	3450	1/4	48N	12V	N/A / 21539-SDC
079607	3450	1/6	48M	14VDC	N/A / 21416U-ADC
079608	3450	1/7	48M	240V	20892 / 21174
079613	3450	1/6	48M	13.5V	21699U
079615	3450	1/5	48M	115/240V	N/A / 21345
079021	4500	1/5	48M	12VDC	21993-005 / N/A
Universal					
079604	3450	1/4	48N	115V	N/A / 2364U
079609	3450	1/4	48N	115/240V	N/A / 21344
079611	3450	1/5	48N	240V	21328 / 2899
079612	3450	1/5	48N	115V	20554 / 2900
079021X	Kit, 12VDC/MET to Fasco				
Universal					
079022	3450	1/7	48M	110-60 Hz	Capacitor Start
079025	3450	1/5	48N	110/240V	

Blower Wheel



Part No.	Wayne Part No.	Description
079005	20288/SER	5-3/16" x 3-7/16"
079006	21854/SER	6-1/4" x 4-3/16"
078999	20673	4-1/4" x 3-1/8"
079003	21427/SER3	12V (Fasco)
079003A	21427	(MET)

Common Parts - Beckett & Wayne



Oil Line



Brass Elbow

Part No.	Description
079526	Oil Line, 6.5", Copper
079058	Oil Line, 8", Copper
079525	Oil Line, 9.5", Copper
079066	Brass 90° Elbow 1/8" flare, 1/8" MPT
079067	Brass 90° Elbow 3/16 flare, 1/8" MPT
079020	Oil Pressure Gauge 0 - 200 PSI
079051	(28737-1) Nozzle Adapter

Wayne Burner Parts



Part No.	Wayne Part No.	Description
079056	31156	Burner Tune-up Kit
079052	14733-001 14734-002	Electrode Assembly (Pair) with Buss Bars – G shape
079024	12945	Buss Bar – G shape
079034	14344	Burner Gasket
078785	12484	Universal Gasket
079014	4725	Burner Housing (E-Series)
079016	2689	Burner Flange "F"
079059	13279	Flex Coupler A Fuel Unit
079060		Coupler End (J Pump 7/16")
079010	13360	Trans Clip Screw
079011	13038	Trans Clip
079004	2668	Outer Air Band (8 Hole)
079007	2669	Inner Air Band (8 Hole)
078979	31702-014	Gun Assy, F/307007
078752		Nozzle Adapter w/legs MSR/DC

Fuel Conditioner & Soot Remover



Red Devil eliminates soot buildup.

- Easy to use – just add to burner fuel
- Keeps burner at top efficiency

Part No.	Description
112057	Pint (16 oz.)
112059	Quart

See page 93 for Oil-Fired Hot Box

Burner Transformers



- 10,000 Volt spark
- 2.2 Amp @ 120V
- 8.5 lbs
- Traditional copper wire wound

Part No.	Beckett Part No.	Mounting	Volt
079668	51343U	AFG	230V
079662	21376U	S-SF-SR-SM	120V
079665	21176U	SM	240V
079672	21346	AFG	120/240V
079673	31488BK	Adapter Plate; AFG to SM	

Burner Ignitors



- Solid State Technology
- 14,000 Volt spark
- Only .35 Amp @ 110V
- 1.7 lbs

Part No.	Beckett Part No.	Mounting	Volt
079669	51501U	AFG/Lo Amp	115V
079671	51524U	ADCw/o CB	12VDC
079670*	51499U	ADCw/ CB	12VDC
079707	51506U	SDCw/ Con BD	12VDC
079682	51824U	SDC	120V
079687	51779U	SDCw/o CB	

*complete with Timer

Base Plates for Transformers & Ignitors



Part No.	Description
079644	A, Trans/Ign
079645	S, Trans/Ign
079646	E, Trans/Ign
079647	M, Trans/Ign

Burner Transformers



- 10,000 Volt spark
- 2.2 Amp @ 120V
- 8.5 lbs
- FranceFormer

Part No.	Wayne Part No.	Mounting	Volt
079115	23101/E	Side/EH-EHA	120V
079117	23101/M	Back/M-MSR	120V
079123	23103/E	Side/EH-EH	230V
079124	23103/M	10KVA/Side	120V

Burner Ignitors



- Solid State Technology
- 14,000 Volt spark
- Only .35 Amp @ 120V
- 1.7 lbs

Part No.	Wayne Part No.	Mounting	Volt
079111	101122/001	Side/EH-EHA, France	120V
079113	101121/001	Back/M-MSR, France	120V
079107	31813-002	Side/EH-EHA, Allanson	220V
079109	31812-002	Back/M-MSR	220V
079120	31812-003	Rear Mount, Carlon	12V
079152	31813003	Side Mount(E)	12V

12 VDC KIP Fuel Solenoid Valve



- Brass body
- 12V DC coil
- 1/8" FPT I/O ports
- Conduit connector
- 5/64" orifice = 6 watt

Part No.	Description
079652	Fuel Solenoid Valve

Oil Solenoid Valve



- Unitized mounting on Suntec fuel pumps
- 1/8" FPT Inlet
- 300 PSI
- Uses standard SUNTEC coil

Part No.	Description
079062	110V Oil Valve - R642
079063	220V Oil Valve - R753
079064	12/24V Oil Valve - R261
079125	Flow Thru Connector Bolt
079126	Aluminum Seal Washer
079053X	110V Coil w/ Cord Set
079054X	230V Coil w/ Cord Set
079050X	12/24 Coil w/ Cord Set
079096	115V Coil w/o Cord Set
079097	230V Coil w/o Cord Set
079098	12/24VDC Coil w/o Cord Set
079099	Cord Set Only
079047	8mm Nut for Old Style Coil

Fuel Pumps



- Use with single or dual line systems
- Pressure adjustment valve

Part No.	Description	Quantity	Flow Rate	Pressure
Standard Pumps				
079030	A2VA7116	3	3450	RH
079031	A1VA7112	3	1725	RH
079033	A2VC7118	3	3450	LH
079036	A1YA7912	7	1725	RH
079037	A2YA7916	7	3450	RH
079028	A2RA7710			RH
Pumps with Solenoid				
079038	A2VA2116 w/12V		3450	RH
079038-110	A2VA2116 w/110V	3	3450	RH
079038-220	A2VA2116 w/220V	3	3450	RH
Pump Replacement Parts				
079044	3715732 Pump Fuel Screen (A2VA 7116)			
079055	3715744 Pump Fuel Screen (A2VA 7916)			
079045	3779801 Gasket Cover			
079164	Lip Seal			

CleanCut Fuel Pump



Simple design provides faster cleaning, more reliable cut offs, and cut ons. Cleaner operation-less soot. More reliable-fewer moving parts. Reduced motor load in start up. Higher capacity - 4 GPM at 100 PSI.



- 100-200 PSI - Factory set 100 PSI
- Inlet pressure 10 PSI
- Rated speed 3600 RPM
- Includes built in solenoid w/ cord set

Part No.	Description
079641	110 Volt
079642	220 Volt
079643	12 Volt

Insulation & Rigid Disc / Donuts

Refractory Grade Ceramic **Kawool** Formed; retains heat inside coil for better fuel efficiency and paint protection.



Part No.	Description	Thickness	Width	Length
"Rigid Formed" Donut & Discs				
122253	Donut	.88"	18"	6"/4.4"
122258	Donut	.88"	16"	6"/4.4"
122254	Disc	1/2"	18"	
122257	Disc	1/2"	16"	
Insulation Blanket				
122204	Coil Wrap	1"	24"	4'
122205	Coil Wrap	1"	24"	5'
122206	Coil Wrap	1"	24"	6'
122222	Full Roll	1/2"	24"	37.5'
122225	Full Roll	1"	24"	25'

Smoke Tester - Diagnostic Tool

The smoke tester gives you the ability to measure smoke (soot) density and adjust air flow and fuel pressure to optimize burner performance.



A properly tuned burner:

- Heats water more efficiently
- Doesn't build up soot in the coil
- Doesn't pollute the air
- Keeps your customers happy
- A tool that should be used by every serviceman in the industry.

Part No.	Description
449020	Smoke Tester
449019	Filter Paper Refill*

*40 sheet (10 tests per sheet)

Delavan Fuel Nozzles



Select proper size for maximum burner efficiency.

Part No.	GPH
079477	2.00 x 60°W
079479	1.65 x 80°W
079480	1.50 x 80°W
079481	1.75 x 80°W
079482	2.00 x 80°W
079483	2.25 x 80°W
079484	2.50 x 80°W
079486	2.75 x 80°W
079487	3.00 x 80°W
079490	4.00 x 80°W
079505	1.65 x 90°W
079492	2.00 x 90°W

NOTE: The above "W" Nozzles are stocked. All Sizes Are Available

GPH	60° A Hollow	60° B Solid	70° A Hollow	70° B Solid	80° A Hollow	80° B Solid	90° A Hollow	90° B Solid
.50	079225	079250	079275		079325			079400
.60					079326	079351	079376	
.65	079227				079327	079352	079377	
.75		079253		079303	079328	079353	079378	079403
.85	079229	079254			079329	079354		079404
.90	079230	079255			079330	079355	079380	
1.00	079231	079256	079281	079306	079331	079356	079381	079406
1.10	079232	079257			079332	079357	079382	079407
1.20	079233	079258	079283		079333	079358		
1.25	079234	079259		079309	079334	079359	079384	079409
1.35	079235	079260		079310	079335	079360	079385	079410
1.50	079236	079261	079286		079336	079361	079386	079411
1.65	079237	079262			079337	079362	079387	079412
1.75	079238	079263	079288	079313	079338	079363	079388	079413
2.00	079239			079314	079339	079364	079389	079414
2.25	079240	079265		079315	079340	079365	079390	079415
2.50	079241	079266	079291		079341	079366	079391	079416
2.75	079242	079267			079342	079367	079392	079417
3.00			079293		079343	079368	079393	079418
3.25	079244		079294			079369	079394	079419
3.50		079270			079345	079370	079395	079420
4.00					079346	079371	079396	079421
5.00						079373A	079398	
6.00						079374		079425
6.50						079372		
7.00								
8.00				079324				

"Snap" Fuel Nozzle Check Valve

Spring loaded "snap" check valve replaces filter element on fuel nozzle. Valve opens when fuel pump pressure reaches 130 PSI and "snaps" shut when fuel pressure drops below 130 PSI. Stops "smokey" burners at start up and eliminates "shut down" after burn.



- Reduces nozzle fouling caused by residual fuel in orifice
- Easy field installation in standard fuel nozzles
- Reduces soot build up in coil

Part No.	Description
079210	Snap Fuel Valve, 100 PSI
079211	Snap Fuel Valve, 130 PSI
079215	Snap Check Valve, 130 PSI (5 pack)
079214	Snap Check Valve, 100 PSI (5 pack)

Nozzle Accessories



Part No.	Description
079221	Nozzle Tray (Metal) (Open Top, 55-Compartment, Plastic)

Cycle Pilot

Gas Auto Relight Kits. Eliminate standing pilot in gas burners with a cycle pilot relight kit. Retro Fit Kit includes: Gas valve, flame sensor, electrode pilot relight and harness.



Part No.	Description
347425	24V Retrofit Kit (NG) 100,000 BTU
347418	24V Retrofit Kit (NG) 335,000 BTU
347379	24V Retrofit Kit (NG) 720,000 BTU
347416	Cycle Pilot Control (347425) 24V
347440	Cycle Pilot Control 120V
347446	Gas Ignition Electrode (24" Lead)

Gas Burner Rings - N/G or L/P Gas Jets

The Standard for Gas-Fired Pressure Washers. Impinged Jet Burner Rings offer the most efficient utilization of gas for heating water.



Gas Burner Ring

Part No.	Model No.	Jets Req'd	1000 BTUH
Gas Burner Rings Only			
347502	Z-21	20	100-200
347504	X-11	32	160-320
347506	X-44	44	220-440
347508	X-66	66	330-660
347510	X-88	88	440-880



Gas Jets

Part No.	Drill Size	Orifice Size	Use
Gas Jets for Burner Rings* (above)			
347552	#52	(.0635)	NG
347554	#54	(.055)	NG
347562	#62	(.038)	LP
347565	#65	(.035)	LP
347566	#66	(.033)	LP
347549	Blank (Must Be Drilled)		

*Due to freight damage on assembled rings / jets...Separately order correct number & size of jets for each burner ring.

Gas Valves - LP or Natural

Universal type for building new systems or field replacement. 750 MV, 24V or 120V Controls by White-Rodgers.



- 335,000 BTU max
- 3/4" inlet/outlet
- All adjustments & wiring connections on top of valve
- Automatic outlet pressure regulator
- A.G.A. design certified, C.G.A. certified

Part No.	Description	Model No.
347400	Gas Valve 24V (1)	
347410	Gas Valve 120V (2)	
347412	Gas Valve 750 MV (1)	
347423	3/4" LP Conversion Kit	

(1) Includes two 3/4" x 1/2" all-thread plated bushings and valve instructions.

(2) Includes L.P. Kit, two 3/4" x 1/2" and one 1/2" x 3/8" all-thread plated bushings and all instructions.

1" Gas Valves by Robert Shaw

Universal type for new equipment or replacement.



- Manual gas cock
- Auto pilot safety valve
- Wiring & hardware included
- Pilot gas filter
- 600,000 BTU LP gas
720,000 BTU Natural Gas
- 1" inlet/outlet

Part No.	Description	Model No.
347406	240 Vac/NG, Standing Pilot	
347407	24 Vac, NG, Standing Pilot	
347403	24 Vac, NG, Electronic Ignition	
347409	700 MV, Natural Gas	

LP Conversion Kit below

LP Conversion Kit for Robert Shaw

Convert NG to LP



Part No.	Description
347421	1" LP Conversion Kit
347380	LP Orifice

Gas Valve Accessory Components

Use with both 3/4" and 1" models above.



Part No.	Description
347430	750 MV Generator
347431	P110T Pilot Burner (Natural gas)
347436	Thermo Couple (w/ 24") Cap Tube
347438	Thermo Couple (w/ 36") Cap Tube